

- 1 Q. Describe the billing determinants of what would be, in NLH's opinion, a
2 representative small, medium, and large customer in rate class 2.1D.
3 Calculate for each representative customer, the annual electric bills for 2004,
4 2005, and 2006 under NLH's proposed rate structure.
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6
7 A. See attached tables. Forfeited discounts are calculated based on a ratio of
8 forfeited discounts to discounts based on 2001 actuals.

Rate 2.1 Isolated General Service 0-10 kW Current Rate

Basic Customer Charge (BCC)	\$18.10/month
Energy Charge – First 700 kilowatt hours per month	9.389¢/kWh
– All kWh over 700 kilowatt hours per month	20.035¢/kWh

Rate 2.1 Isolated General Service 0-10 kW Proposed 2004

Basic Customer Charge (BCC)	\$19.45/month
Energy Charge – First 700 kilowatt hours per month	11.740¢/kWh
– All kWh over 700 kilowatt hours per month	20.000¢/kWh

Rate 2.1 Isolated General Service 0-10 kW Proposed 2005

Basic Customer Charge (BCC)	\$19.45/month
Energy Charge – First 700 kilowatt hours per month	13.920¢/kWh
– All kWh over 700 kilowatt hours per month	18.000¢/kWh

Rate 2.1 Isolated General Service 0-10 kW Proposed 2006

Basic Customer Charge (BCC)	\$19.45/month
Energy Charge – All kilowatt hours per month	16.050¢/kWh

Rate 2.1D Small Customer

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
01	142	142	0	\$18.10	\$13.33	\$0.00	\$1.00	\$0.00	\$30.43	\$19.45	\$16.67	\$0.00	\$1.00	\$0.00	\$35.12
02	38	38	0	18.10	3.57	0.00	1.00	0.00	20.67	19.45	4.46	0.00	1.00	0.00	22.91
03	138	138	0	18.10	12.96	0.00	1.00	0.00	30.06	19.45	16.20	0.00	1.00	0.00	34.65
04	74	74	0	18.10	6.95	0.00	1.00	1.00	25.05	19.45	8.69	0.00	1.00	1.00	28.14
05	10	10	0	18.10	0.94	0.00	1.00	1.00	19.04	19.45	1.17	0.00	1.00	1.00	20.62
06	8	8	0	18.10	0.75	0.00	1.00	1.00	18.85	19.45	0.94	0.00	1.00	1.00	20.39
07	0	0	0	18.10	0.00	0.00	1.00	1.00	18.10	19.45	0.00	0.00	1.00	1.00	19.45
08	28	28	0	18.10	2.63	0.00	1.00	1.00	20.73	19.45	3.29	0.00	1.00	1.00	22.74
09	65	65	0	18.10	6.10	0.00	1.00	1.00	24.20	19.45	7.63	0.00	1.00	1.00	27.08
10	6	6	0	18.10	0.56	0.00	1.00	1.00	18.66	19.45	0.70	0.00	1.00	1.00	20.15
11	5	5	0	18.10	0.47	0.00	1.00	1.00	18.57	19.45	0.59	0.00	1.00	1.00	20.04
12	19	19	0	18.10	1.78	0.00	1.00	1.00	19.88	19.45	2.23	0.00	1.00	1.00	21.68
	533								264.24						\$292.97

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates	Basic Cust Charge @ Proposed 2006 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	142	142	0	\$19.45	\$19.77	\$0.00	\$1.00	\$0.00	\$38.22	\$19.45	\$22.79		\$1.00	\$0.00	\$41.24
02	38	38	0	19.45	5.29	0.00	1.00	0.00	23.74	19.45	6.10		1.00	0.00	24.55
03	138	138	0	19.45	19.21	0.00	1.00	0.00	37.66	19.45	22.15		1.00	0.00	40.60
04	74	74	0	19.45	10.30	0.00	1.00	1.00	29.75	19.45	11.88		1.00	1.00	31.33
05	10	10	0	19.45	1.39	0.00	1.00	1.00	20.84	19.45	1.61		1.00	1.00	21.06
06	8	8	0	19.45	1.11	0.00	1.00	1.00	20.56	19.45	1.28		1.00	1.00	20.73
07	0	0	0	19.45	0.00	0.00	1.00	1.00	19.45	19.45	0.00		1.00	1.00	19.45
08	28	28	0	19.45	3.90	0.00	1.00	1.00	23.35	19.45	4.49		1.00	1.00	23.94
09	65	65	0	19.45	9.05	0.00	1.00	1.00	28.50	19.45	10.43		1.00	1.00	29.88
10	6	6	0	19.45	0.84	0.00	1.00	1.00	20.29	19.45	0.96		1.00	1.00	20.41
11	5	5	0	19.45	0.70	0.00	1.00	1.00	20.15	19.45	0.80		1.00	1.00	20.25
12	19	19	0	19.45	2.64	0.00	1.00	1.00	22.09	19.45	3.05		1.00	1.00	22.50
	533								\$304.60						\$315.94

Rate Class 2.1D Medium Customer

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
01	726	700	26	18.10	65.72	5.21	1.34	1.55	89.25	19.45	82.18	5.20	1.60	1.87	107.09
02	766	700	66	18.10	65.72	13.22	1.46	0.00	95.59	19.45	82.18	13.20	1.72	0.00	113.11
03	694	694	0	18.10	65.16	0.00	1.25	0.00	82.01	19.45	81.48	0.00	1.51	0.00	99.41
04	805	700	105	18.10	65.72	21.04	1.57	0.00	103.29	19.45	82.18	21.00	1.84	0.00	120.79
05	650	650	0	18.10	61.03	0.00	1.19	1.57	79.51	19.45	76.31	0.00	1.44	1.90	96.23
06	790	700	90	18.10	65.72	18.03	1.53	0.00	100.33	19.45	82.18	18.00	1.79	0.00	117.84
07	803	700	103	18.10	65.72	20.64	1.57	0.00	102.89	19.45	82.18	20.60	1.83	0.00	120.40
08	1107	700	407	18.10	65.72	81.54	2.48	0.00	162.88	19.45	82.18	81.40	2.75	0.00	180.28
09	1135	700	435	18.10	65.72	87.15	2.56	0.00	168.41	19.45	82.18	87.00	2.83	0.00	185.80
10	981	700	281	18.10	65.72	56.30	2.10	0.00	138.02	19.45	82.18	56.20	2.37	0.00	155.46
11	854	700	154	18.10	65.72	30.85	1.72	0.00	112.96	19.45	82.18	30.80	1.99	0.00	130.44
12	822	700	122	18.10	65.72	24.44	1.62	0.00	106.64	19.45	82.18	24.40	1.89	0.00	124.14
10133									\$1,341.78						\$1,550.99

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates	Basic Cust Charge @ Proposed 2006 Rates	kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	726	700	26	\$19.45	\$97.44	\$4.68	\$1.82	\$2.12	\$121.87	\$19.45	\$116.52	\$2.04	\$2.37	\$136.31
02	766	700	66	19.45	97.44	11.88	1.93	0.00	126.84	19.45	122.94	2.14	0.00	140.26
03	694	694	0	19.45	96.60	0.00	1.74	0.00	114.31	19.45	111.39	1.96	0.00	128.87
04	805	700	105	19.45	97.44	18.90	2.04	0.00	133.75	19.45	129.20	2.23	0.00	146.42
05	650	650	0	19.45	90.48	0.00	1.65	2.18	110.47	19.45	104.33	1.86	2.46	124.38
06	790	700	90	19.45	97.44	16.20	2.00	0.00	131.09	19.45	126.80	2.19	0.00	144.05
07	803	700	103	19.45	97.44	18.54	2.03	0.00	133.40	19.45	128.88	2.22	0.00	146.11
08	1107	700	407	19.45	97.44	73.26	2.85	0.00	187.30	19.45	177.67	2.96	0.00	194.17
09	1135	700	435	19.45	97.44	78.30	2.93	0.00	192.26	19.45	182.17	3.02	0.00	198.59
10	981	700	281	19.45	97.44	50.58	2.51	0.00	164.96	19.45	157.45	2.65	0.00	174.25
11	854	700	154	19.45	97.44	27.72	2.17	0.00	142.44	19.45	137.07	2.35	0.00	154.17
12	822	700	122	19.45	97.44	21.96	2.08	0.00	136.77	19.45	131.93	2.27	0.00	149.11
10133									\$1,695.46					\$1,836.69

Rate Class 2.1D Large Customer

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates	Basic Cust Charge @ Proposed Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed Rates
01	7000	700	6300	18.10	65.72	1262.21	20.19	19.28	1345.12	19.45	82.18	1260.00	20.42	19.51	1,360.71
02	7000	700	6300	18.10	65.72	1262.21	20.19	20.19	1346.03	19.45	82.18	1260.00	20.42	20.42	1,361.63
03	6500	700	5800	18.10	65.72	1162.03	18.69	20.19	1247.36	19.45	82.18	1160.00	18.92	20.45	1,263.15
04	6500	700	5800	18.10	65.72	1162.03	18.69	18.69	1245.85	19.45	82.18	1160.00	18.92	18.92	1,261.63
05	6500	700	5800	18.10	65.72	1162.03	18.69	18.69	1245.85	19.45	82.18	1160.00	18.92	18.92	1,261.63
06	6500	700	5800	18.10	65.72	1162.03	18.69	18.69	1245.85	19.45	82.18	1160.00	18.92	18.92	1,261.63
07	6000	700	5300	18.10	65.72	1061.86	17.19	18.69	1147.18	19.45	82.18	1060.00	17.42	18.95	1,163.15
08	4500	700	3800	18.10	65.72	761.33	12.68	17.19	849.68	19.45	82.18	760.00	12.92	17.54	866.24
09	3500	700	2800	18.10	65.72	560.98	9.67	12.68	647.81	19.45	82.18	560.00	9.92	13.01	664.72
10	4000	700	3300	18.10	65.72	661.16	11.17	9.67	743.47	19.45	82.18	660.00	11.42	9.89	760.09
11	4000	700	3300	18.10	65.72	661.16	11.17	11.17	744.98	19.45	82.18	660.00	11.42	11.42	761.63
12	4000	700	3300	18.10	65.72	661.16	11.17	11.17	744.98	19.45	82.18	660.00	11.42	11.42	761.63
66000									\$12,554.16						\$12,747.84

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates	Basic Cust Charge @ Proposed 2006 Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	7000	700	6300	\$19.45	\$97.44	\$1,134.00	\$18.76	\$17.92	\$1,250.05	\$19.45	\$1,123.50		\$17.14	\$16.37	\$1,142.18
02	7000	700	6300	19.45	97.44	1134.00	18.76	18.76	1,250.89	19.45	1123.50		17.14	17.14	1,142.95
03	6500	700	5800	19.45	97.44	1044.00	17.41	18.81	1,162.29	19.45	1043.25		15.94	17.22	1,063.98
04	6500	700	5800	19.45	97.44	1044.00	17.41	17.41	1,160.89	19.45	1043.25		15.94	15.94	1,062.70
05	6500	700	5800	19.45	97.44	1044.00	17.41	17.41	1,160.89	19.45	1043.25		15.94	15.94	1,062.70
06	6500	700	5800	19.45	97.44	1044.00	17.41	17.41	1,160.89	19.45	1043.25		15.94	15.94	1,062.70
07	6000	700	5300	19.45	97.44	954.00	16.06	17.47	1,072.30	19.45	963.00		14.74	16.03	983.74
08	4500	700	3800	19.45	97.44	684.00	12.01	16.30	805.18	19.45	722.25		11.13	15.10	745.67
09	3500	700	2800	19.45	97.44	504.00	9.31	12.21	623.79	19.45	561.75		8.72	11.43	583.91
10	4000	700	3300	19.45	97.44	594.00	10.66	9.23	709.45	19.45	642.00		9.92	8.59	660.11
11	4000	700	3300	19.45	97.44	594.00	10.66	10.66	710.89	19.45	642.00		9.92	9.92	661.45
12	4000	700	3300	19.45	97.44	594.00	10.66	10.66	710.89	19.45	642.00		9.92	9.92	661.45
66000									\$11,778.40						\$10,833.54